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NOTICE OF ALLOWANCE AND FEE(S) DUE

35884 7590 08/08/2008

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Suite 2300
LOS ANGELES, CA 90017

EXAMINER

SENF, BEHROOZ M

ART UNIT

PAPER NUMBER

2621

DATE MAILED: 08/08/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/750,932

12/30/2003

Kwang Deok Seo

2060-3-67

1884

TITLE OF INVENTION: METHOD FOR DETERMINING MOTION VECTOR AND MACROBLOCK TYPE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/10/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

35884 7590 08/08/2008

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Suite 2300
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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/750,932 12/30/2003 Kwang Deok Seo 2060-3-67 1884

TITLE OF INVENTION: METHOD FOR DETERMINING MOTION VECTOR AND MACROBLOCK TYPE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional NO \$1440 \$300 \$0 \$1740 11/10/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
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SENFI, BEHROOZ M 2621 375-240160

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,932	12/30/2003	Kwang Deok Seo	2060-3-67	1884
35884	7590	08/08/2008	EXAMINER	
LEE, HONG, DEGERMAN, KANG & SCHMADEKA 660 S. FIGUEROA STREET Suite 2300 LOS ANGELES, CA 90017			SENF, BEHROOZ M	
			ART UNIT	PAPER NUMBER
			2621	
DATE MAILED: 08/08/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1067 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1067 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

10/750,932

Applicant(s)

SEO, KWANG DEOK

Examiner

BEHROOZ SENFI

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/13/2008.
2. ☒ The allowed claim(s) is/are 1-7,9-16 and 18-22, renumbered as 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Vernon R. Yancy (Reg. No. 52,379) on 22 July 2008.

In claim 1:

Please change the phrase, in lines 16-17 of the claim, from "allocating approximately sum of a motion vector allocated to the macroblock of the frame N and a motion vector allocated to the macroblock of the frame" to "allocating an approximated sum of the motion vector allocated to the macroblock of the frame N and the motion vector allocated to the macroblock of the frame".

In claim 3:

Please change the phrase, in lines 2-3 of the claim, from "macroblock of the frame N is determined according to a macroblock type of the skipped frame N-1 when the macroblock of the frame N is an inter type" to "macroblock of the frame N is determined according to the macroblock type of the skipped frame N-1 when the macroblock of the frame N is the inter type".

In claim 4:

Please change the phrase, in lines 2-4 of the claim, from “frame N is determined according to a macroblock type of the frame N-1 located at approximately similar position with the macroblock of the frame N when the macroblock of the frame N is a skipped type” to “frame N is determined according to the macroblock type of the frame N-1 located at approximately similar position with the macroblock of the frame N when the macroblock of the frame N is the skipped type”.

In claim 5:

Please change the phrase, in line 3 of the claim, from “macroblock is an inter type” to “macroblock is the inter type”.

In claim 7:

Please change the phrase, in line 6 of the claim, from “the skipped frame N-1 when a macroblock of the frame N is an intra type” to “the skipped frame N-1 when the macroblock of the frame N is an intra type”;

Please change the phrase, in line 9 of the claim, from “the frame N when the macroblock of the frame N is a skipped type” to “the frame N when the macroblock of the frame N is the skipped type”;

Please change the phrase, in line 11 of the claim, from “the frame N is an intra type” to “the frame N is the intra type”;

Please change the phrase, in lines 16-17 of the claim, from “allocating a sum total of a motion vector allocated to macroblock of the frame N and a motion vector allocated to macroblock of the frame N-1 as a new motion vector of” to “allocating a sum

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total of the motion vector allocated to macroblock of the frame N and the motion vector allocated to macroblock of the frame N-1 as a new motion vector of”.

In claim 9:

Please change the phrase, in line 2 of the claim, from “determining a macroblock type” to “determining the macroblock type”;

Please change the phrase, in line 4 of the claim, from “is a skipped type” to “is the skipped type”;

Please change the phrase, in lines 5-6 of the claim, from “determining the macroblock of the frame N as an intra type when the macroblock of the frame N-1 is an intra type” to “determining the macroblock of the frame N as the intra type when the macroblock of the frame N-1 is the intra type”;

Please change the phrase, in lines 7-8 of the claim, from “determining the macroblock of the frame N as a skipped type when the macroblock of the frame N-1 is a skipped type” to “determining the macroblock of the frame N as the skipped type when the macroblock of the frame N-1 is the skipped type”;

Please change the phrase, in lines 9-10 of the claim, from “determining the macroblock of the frame N as an inter type when the macroblock of the frame N-1 is an inter type” to “determining the macroblock of the frame N as the inter type when the macroblock of the frame N-1 is the inter type”.

In claim 10:

Please change the phrase, in line 3 of the claim, from “macroblock of the frame N is an inter type” to “macroblock of the frame N is the inter type”.

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In claim 12:

Please change the phrase, in lines 3-4 of the claim, from “examining a macroblock of a frame N transmitted after a skipped frame N-1 is an inter type” to “examining a macroblock of a frame N transmitted after a skipped frame N-1 that is an inter type”;

Please change the phrase, in line 6 of the claim, from “allocating a new motion vector for a macroblock of the frame N,” to “allocating a new motion vector for the macroblock of the frame N,”

Please change the phrase, in line 9 of the claim, from “allocating an infinite motion vector to a macroblock of the frame N when” to “allocating an infinite motion vector to the macroblock of the frame N when”

Please change the phrase, in lines 13-16 of the claim, from “allocating approximately a sum total of a motion vector allocated to the macroblock of the frame N and a motion vector allocated to the macroblock of the frame N-1 as a new motion vector for the macroblock of the frame N when the macroblock of the skipped frame N-1 is an inter type” to “allocating an approximated sum total of the motion vector allocated to the macroblock of the frame N and the motion vector allocated to the macroblock of the frame N-1 as a new motion vector for the macroblock of the frame N when the macroblock of the skipped frame N-1 is the inter type”.

In claim 13:

Please change the phrase, in line 2 of the claim, from “frame N-1 is divided into an intra type, a skipped type and an inter type” to “frame N-1 is divided into the intra type, the skipped type and the inter type”.

In claim 15:

Please change the phrase, in line 2 of the claim, from “infinite value when the macroblock of the frame N-1 is an intra type” to “infinite value when the macroblock of the frame N-1 is the intra type”.

In claim 16:

Please change the phrase, in line 2 of the claim, from “value when the macroblock of the frame N-1 is a skipped type” to “value when the macroblock of the frame N-1 is the skipped type”.

In claim 18:

Please change the phrase, in lines 12-13 of the claim, from “allocating approximately a sum total of a motion vector allocated to the macroblock of the frame N and a motion vector allocated to the” to “allocating an approximated sum total of the motion vector allocated to the macroblock of the frame N and the motion vector allocated to the”.

In claim 19:

Please change the phrase, in line 2 of the claim, from “when the macroblock of the frame N-1 is an intra type” to “when the macroblock of the frame N-1 is the intra type”.

In claim 20:

Please change the phrase, in lines 2-3 of the claim, from “when the macroblock of the frame N-1 is an skipped type” to “when the macroblock of the frame N-1 is the skipped type”.

Allowable Subject Matter

2. Claims 1 – 7, 9 – 16 and 18 – 22, renumbered as 1 - 20 are allowed.
3. The following is an examiner’s statement of reasons for allowance: The prior art of the record fails to anticipate or fairly suggest, particularly; determining a macro-block type of the skipped frame N-1 when the macro-block of the frame N is an intra type; allocating an infinite motion vector to a macro-block of the frame N when the macro-block of the skipped frame N-1 is an intra type; allocating a motion vector of the macro-block of the frame N when the macro-block of the skipped frame N-1 is a skipped type; and allocating an approximated sum of the motion vector allocated to the macro-block of the frame N and the motion vector allocated to the macro-block of the frame N-1 as a new motion vector for the macro-block of the frame N when the macro-block of the skipped frame N-1 is an inter type, along with other limitations as specified in the independent claim 1, and similar limitations in independent claims 7, 12 and 18, renumbered as 7, 11 and 16.

Claims 2 – 6, 9 – 11, 13 – 16 and 19 – 22, renumbered as 2 – 6, 8 – 10, 12 – 15 and 17 – 20 are allowed with respect to dependency to allowable independent claims 1, 7, 12 and 18, renumbered as 1, 7, 11 and 16.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Behrooz Senfi whose telephone number is 571-272-7339. The examiner can normally be reached on M-F 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Behrooz Senfi/

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